Project

PANIC BUTTON

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Dev’s Kitchen idea

During Dev’s Kitchen a team consisting of several students, supported by experienced mentors, is working together to achieve a set goal.

It’s all about executing the „recipe” for a Proof of Concept-level project in just under 24 hours and present it to a wide audience.

Problem

Irrational decision making after participating in a road occurence (collision or accident) which may put the driver at risk of using dishonest road services.

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Solution

Bringing drivers a solution using the computing cloud and IoT (Internet of Things) which will:

- **Serve as a high end car assistant, which will aid the driver in case of collision or accident by contacting proper services via insurance company.**

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Existing solutions

- **Driver assistant solutions in upper and premium class cars.**

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PANIC BUTTON

- Easy installation.
- Instant contact with proper services after pressing the button.
- Contact with the insurance company and leveraging recommended services.
- No risk of being scammed by dishonest road services, which often offer low quality repairs for an inappropriate cost.

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Business model

- **Cooperation with insurance companies.**

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Project

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Functionality and technology

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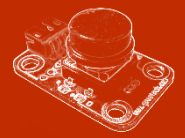
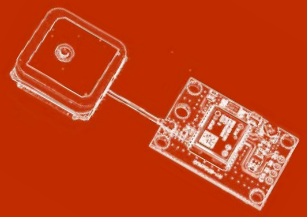
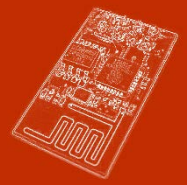
Button



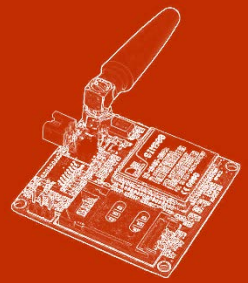
GPS

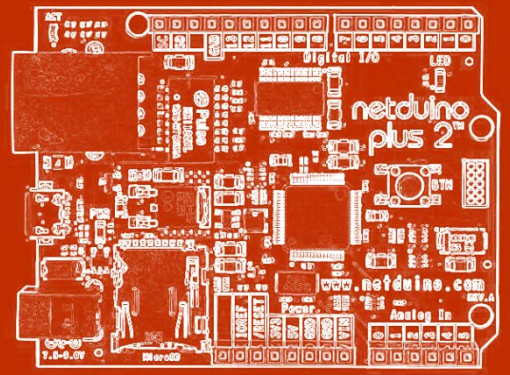


WiFi



GSM





Netduino 2

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Approximate device location readings

Approximate device (vehicle) location can be achieved in several ways, e.g. by including a GPS module. However, a GSM module can be used just as well to determine approximate location in a similar way to mobile phones and A-GPS technologies. Using the Hayes language (AT commands) it is easy to download information about the current GSM network and the transmitters of GSM operators, whose signal is received by the modem. The LAC and CID parameters can be used to determine the approximate location.

Sending the data to a cloud server

The next step of building the system is to establish communication with the computing cloud. It will enable thorough analysis of the acquired data and the adding of additional functionalities. It will require the device to be connected to the internet, which can be provided by a GSM modem that will support packet communication using for example GPRS or UMTS.

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Automatically dialing the driver’s number

After reporting a road occurrence, the computing cloud dials the driver’s number, automatically connecting him with proper services and the insurance company.

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Thank you for your attention!